

## CLAIMS

1. A light-emitting element comprising:  
at least a first electrode and a second electrode;  
5 a first layer between the first electrode and the second electrode, said first layer including a first organic compound and a first inorganic compound that exhibits an electron accepting property to the first organic compound;  
a second layer between the first layer and the second electrode, said second layer including a second organic compound that is luminescent and a second inorganic  
10 compound; and  
a third layer between a second layer and the second electrode, said third layer including a third organic compound and a third inorganic compound that exhibits an electron donating property to the third organic compound.
- 15 2. The light-emitting element according to claim 1, wherein the first organic compound is a hole transporting organic compound.
3. The light-emitting element according to claim 1, wherein the first organic compound is an organic compound having an aromatic amine skeleton.
- 20 4. The light-emitting element according to claim 1, wherein the third organic compound is an electron transporting organic compound.
5. The light-emitting element according to claim 1, wherein the third organic  
25 compound is one of a chelate metal complex having a chelate ligand including an aromatic ring, an organic compound having a phenanthroline skeleton, and an organic compound having an oxadiazole skeleton.
6. The light-emitting element according to claim 1, wherein the first inorganic  
30 compound is a metal oxide.

7. The light-emitting element according to claim 6, wherein the metal oxide is a transition metal oxide having a transition metal that belongs to any one of Groups 4 to 12 of the periodic table.

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8. The light-emitting element according to claim 6, wherein the metal oxide is a metal oxide selected from the group consisting of vanadium oxide, molybdenum oxide, tungsten oxide, and rhenium oxide.

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9. The light-emitting element according to claim 1, wherein the first inorganic compound is a metal nitride.

10. The light-emitting element according to claim 1, wherein the second inorganic compound is a metal oxide.

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11. The light-emitting element according to claim 10, wherein the metal oxide is a metal oxide having a metal that belongs to any one of Groups 13 or 14 of the periodic table.

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12. The light-emitting element according to claim 10, wherein the metal oxide is a metal oxide selected from the group consisting of aluminum oxide, gallium oxide, silicon oxide, and germanium oxide.

13. The light-emitting element according to claim 1, wherein the second inorganic compound is a metal nitride.

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14. The light-emitting element according to claim 1, wherein the third inorganic compound is a metal oxide.

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15. The light-emitting element according to claim 14, wherein the metal oxide

is one of an alkali metal oxide, an alkali-earth metal oxide, and a rare-earth metal oxide.

16. The light-emitting element according to claim 14, wherein the metal oxide is one of lithium oxide and barium oxide.

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17. The light-emitting element according to claim 1, wherein the third inorganic compound is a metal nitride.

18. The light-emitting element according to claim 17, wherein the metal oxide  
10 is one of an alkali metal nitride, an alkali-earth metal nitride, and a rare-earth metal nitride.

19. The light-emitting element according to claim 17, wherein the metal nitride  
15 is a metal nitride selected from the group consisting of lithium nitride, magnesium nitride, and calcium nitride.

20. A light-emitting element comprising:

at least a first electrode and a second electrode;

a first layer between the first electrode and the second electrode, said first layer  
20 including a first organic compound and a first inorganic compound that exhibits an electron accepting property to the first organic compound;

a second layer between the first layer and the second electrode, said second layer including a second organic compound that is luminescent and a second inorganic compound;

25 a third layer between the second layer and the second electrode, said third layer including a third organic compound and a third inorganic compound that exhibits an electron donating property to the third organic compound; and

a fourth layer between the third layer and the second electrode, said fourth layer including a fourth organic compound and a fourth inorganic compound that  
30 exhibits an electron accepting property to the fourth organic compound.

21. The light-emitting element according to claim 20, wherein at least one of the first organic compound and the fourth organic compound is a hole transporting organic compound.

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22. The light-emitting element according to claim 20, wherein at least one of the first organic compound and the fourth organic compound is an organic compound having an aromatic amine skeleton.

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23. The light-emitting element according to claim 20, wherein the third organic compound is an electron transporting organic compound.

24. The light-emitting element according to claim 20, wherein the third organic compound is one of a chelate metal complex having a chelate ligand including an aromatic ring, an organic compound having a phenanthroline skeleton, and an organic compound having an oxadiazole skeleton.

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25. The light-emitting element according to claim 20, wherein at least one of the first inorganic compound the fourth inorganic compound is a metal oxide.

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26. The light-emitting element according to claim 25, wherein the metal oxide is a transition metal oxide having a transition metal that belongs to any one of Groups 4 to 12 of the periodic table.

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27. The light-emitting element according to claim 25, wherein the metal oxide is a metal oxide selected from the group consisting of vanadium oxide, molybdenum oxide, tungsten oxide, and rhenium oxide.

28. The light-emitting element according to claim 20, wherein at least one of the first inorganic compound the fourth inorganic compound is a metal nitride.

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29. The light-emitting element according to claim 20, wherein the second inorganic compound is a metal oxide.

5           30. The light-emitting element according to claim 29, wherein the metal oxide is a metal oxide having a metal that belongs to any one of Groups 13 or 14 of the periodic table.

          31. The light-emitting element according to claim 29, wherein the metal oxide  
10 is a metal oxide selected from the group consisting of aluminum oxide, gallium oxide, silicon oxide, and germanium oxide.

          32. The light-emitting element according to claim 20, wherein the second  
15 inorganic compound is a metal nitride.

          33. The light-emitting element according to claims 20, wherein the third inorganic compound is a metal oxide.

          34. The light-emitting element according to claim 33, wherein the metal oxide  
20 is one of an alkali metal oxide, an alkali-earth metal oxide, and a rare-earth metal oxide.

          35. The light-emitting element according to claim 33, wherein the metal oxide is one of lithium oxide and barium oxide.

25           36. The light-emitting element according to claim 20, wherein the third inorganic compound is a metal nitride.

          37. The light-emitting element according to claim 36, wherein the metal oxide  
30 is one of an alkali metal nitride, an alkali-earth metal nitride, and a rare-earth metal nitride.

38. The light-emitting element according to claim 36, wherein the metal nitride is a metal nitride selected from the group consisting of lithium nitride, magnesium nitride, and calcium nitride.

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39. The light-emitting element according to claim 1, wherein the light emitting element is incorporated in an electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle-type display, head mount display , a navigation system, a sound reproduction device, an in-car audio system, a audio component, a personal computer, a game machine, a personal digital assistance, a  
10 mobile computer, a cellular phone, a portable game machine, an electronic book, and an image reproduction device equipped with a recording medium.

40. The light-emitting element according to claim 20, wherein the light  
15 emitting element is incorporated in an electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle-type display, head mount display , a navigation system, a sound reproduction device, an in-car audio system, a audio component, a personal computer, a game machine, a personal digital assistance, a mobile computer, a cellular phone, a portable game machine, an electronic book, and an  
20 image reproduction device equipped with a recording medium.